Commonwealth of Kentucky Division for Air Quality

REVISED

PERMIT APPLICATION SUMMARY FORM

Completed by: Ben Markin

GENERAL INFORMATION:		
Name:	TVA Paradise Fossil Plant	
Address:	13246 State Route 176, Drakesboro, KY 42337	
Date application received:	December 11, 1996	
SIC/Source description:	4911 Electric Services	
Source I.D. #:	21-177-00006	
Source A.I. #:	3239	
Activity #:	APE20040002	
Permit number:	V-04-024	
APPLICATION TYPE/PERMIT ACTIVITY:		
[x] Initial issuance	[] General permit	
[] Permit modification	[]Conditional major	
Administrative	[x] Title V	
Minor	[] Synthetic minor	
Significant	[x] Operating	
[] Permit renewal	[] Construction/operating	
COMPLIANCE SUMMARY:		
[] Source is out of compliance	[] Compliance schedule included	
[x] Compliance certification signe	ed	
APPLICABLE REQUIREMENTS LIST:		
	NSPS [x] SIP	
	NESHAPS [] Other	
[] Netted out of PSD/NSR []	Not major modification per 401 KAR 51:017,	
	1(23)(b) or 51:052,1(14)(b)	
MISCELLANEOUS:		
[x] Acid rain source		
Source subject to 112(r)		
[] Source applied for federally en	_	
Source provided terms for alte	· ·	
[] Source subject to a MACT sta		
[] Source requested case-by-case		
[] Application proposes new con		
[x] Certified by responsible official		
[x] Diagrams or drawings include		
	tion (CBI) submitted in application	
[] Pollution Prevention Measures		
[] Area is non-attainment (list po	ollutants):	

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)*	Potential (tpy)
PM/PM_{10}	3242/578	5267/1163
SO_2	108,467	119,523
NOx	39,800	61,925
СО	1777	2756
VOC	207	320
LEAD	0.6	0.9

^{*}Actual emissions based on 2003 survey data

SOURCE PROCESS DESCRIPTION:

Tennessee Valley Authority operates three coal-fired electric steam generating boilers. All three are equipped with selective catalytic reduction for NOx control. To control particulate matter and SO₂ emissions, Units 1 and 2 are equipped with venturi type flue gas desulfurization scrubbers. Electrostatic precipitators control particulate matter emissions from Unit 3 with flue gas conditioning when deemed necessary. A flue gas desulfurization scrubber is under construction on Unit 3 with projected start-up in late 2006. The facility also includes coal handling equipment, limestone handling equipment, building heat boilers and heaters, and ash, gypsum, and coal wash plant disposal processes.